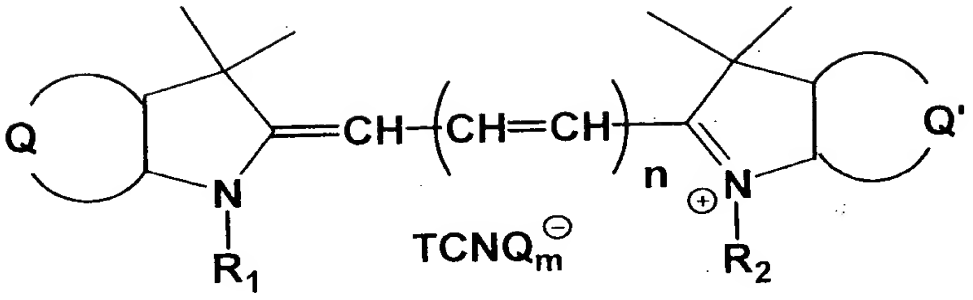
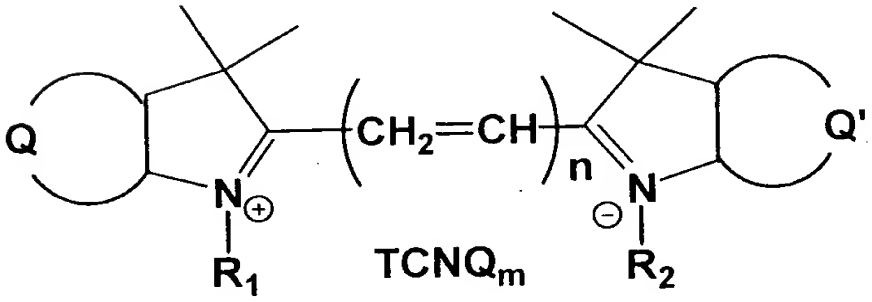
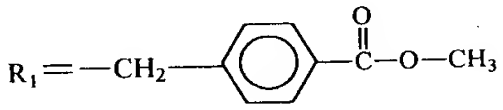


Fig.1





R_2 = CH_2–CH_2—CH_2–CH_3

Fig.2

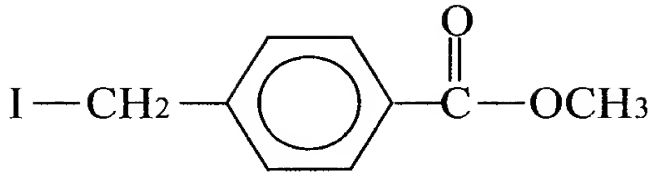


Fig.3

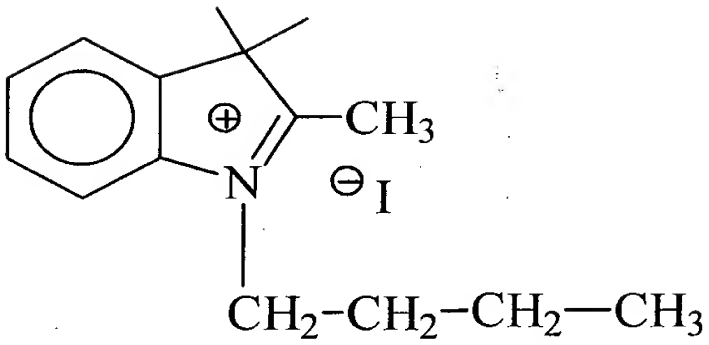


Fig.4

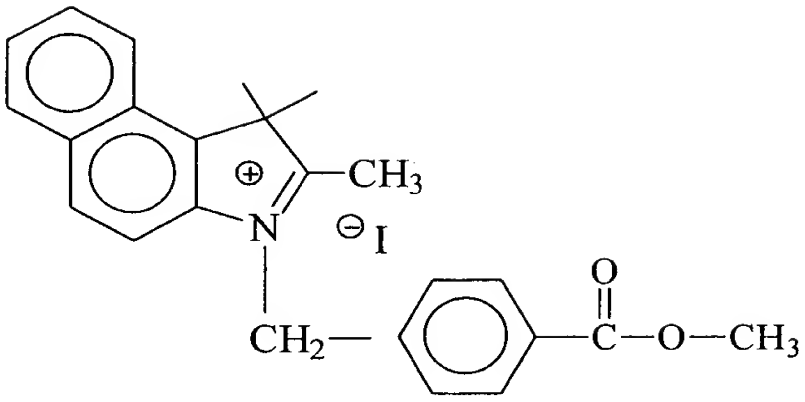


FIG.5

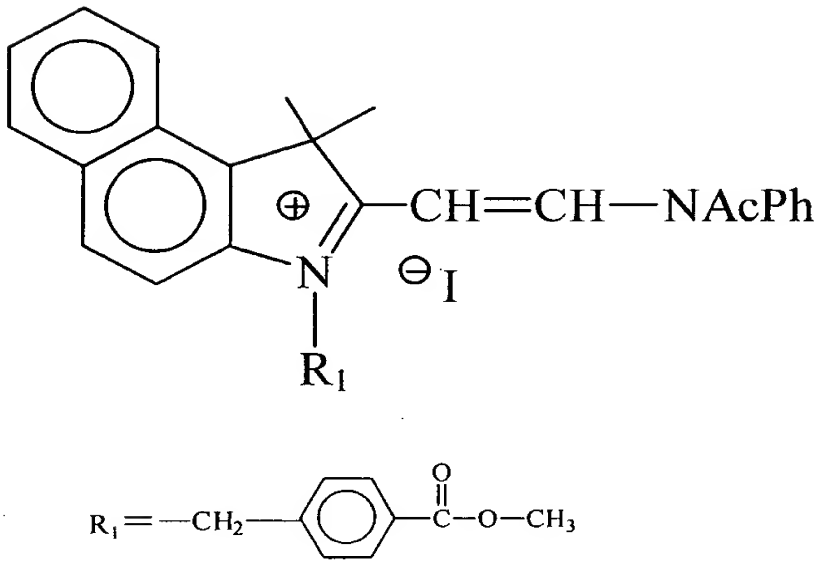


FIG.6

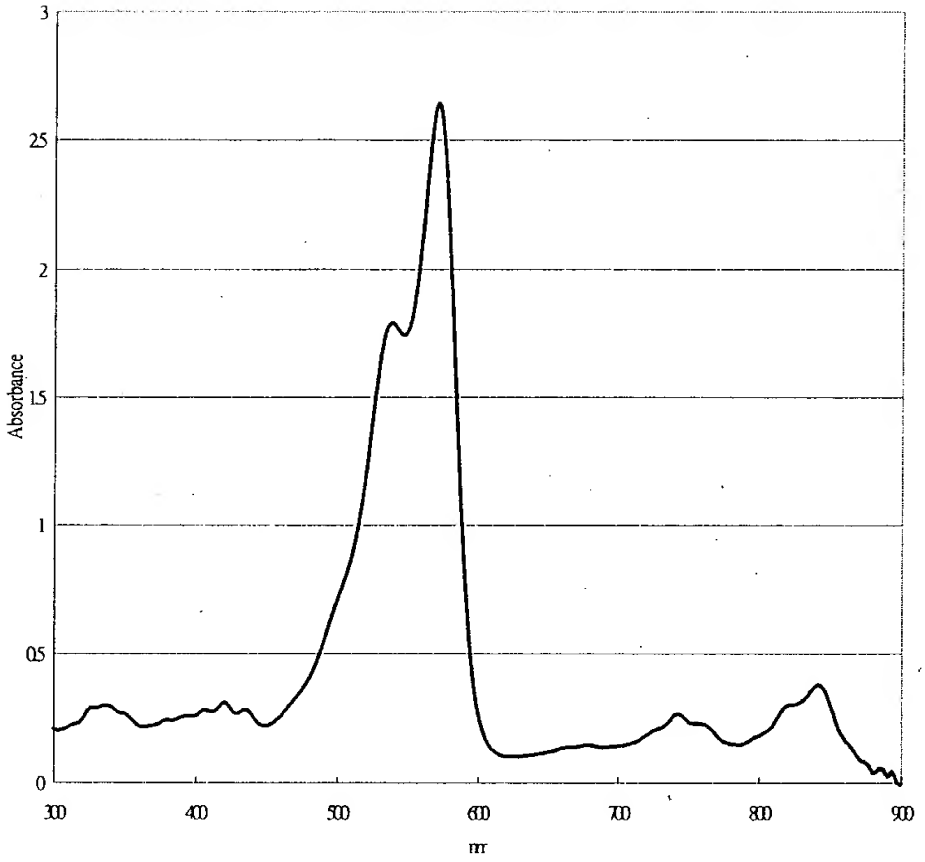


Fig.7

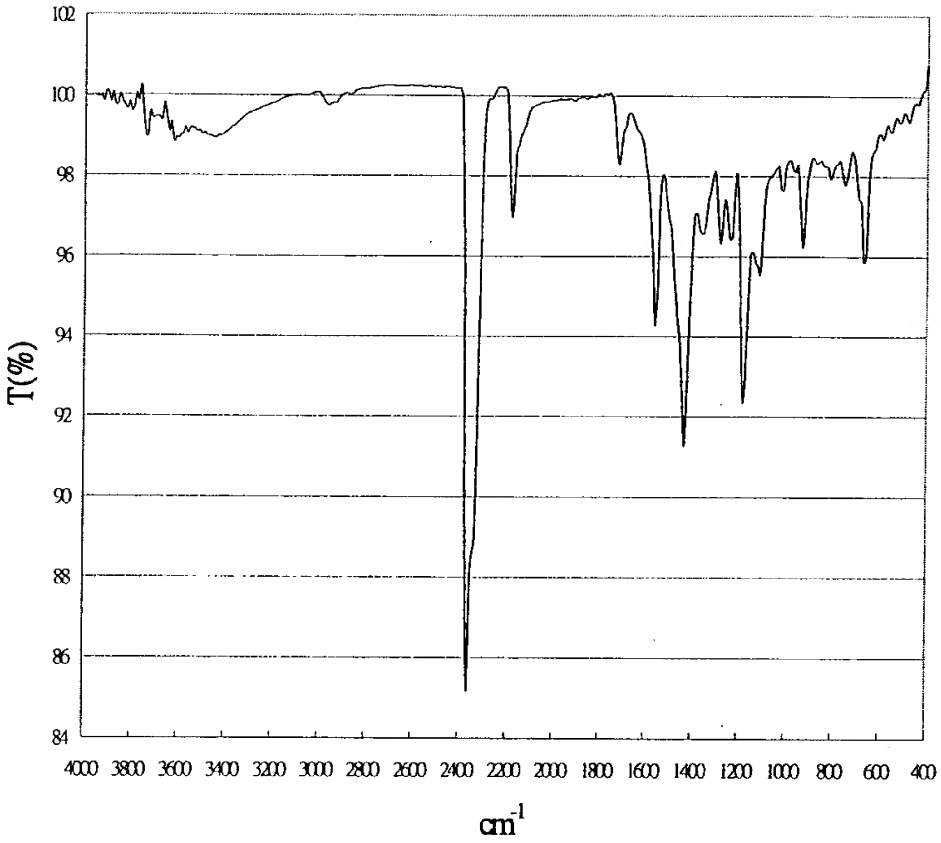

102
100
98
96
94
92
90
88
86
84
T(%)
4000 3800 3600 3400 3200 3000 2800 2600 2400 2200 2000 1800 1600 1400 1200 1000 800 600 400
cm-1

Fig.8

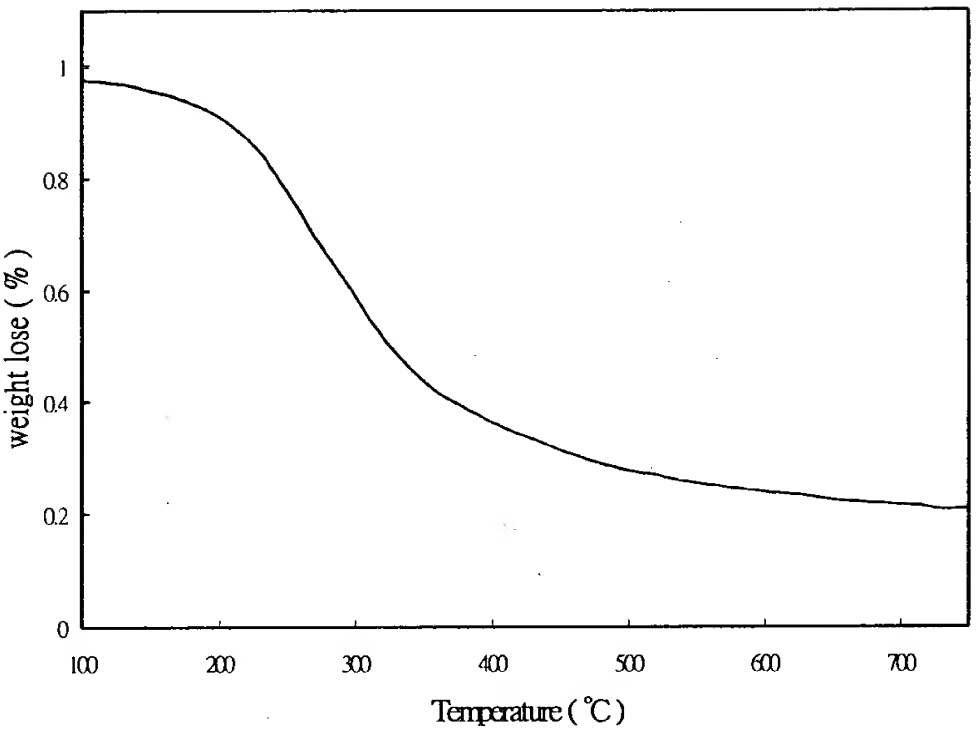

1
0.8
0.6
0.4
0.2
0
weight lose (%)
100
200
300
400
500
600
700
Temperature (℃)

Fig.9

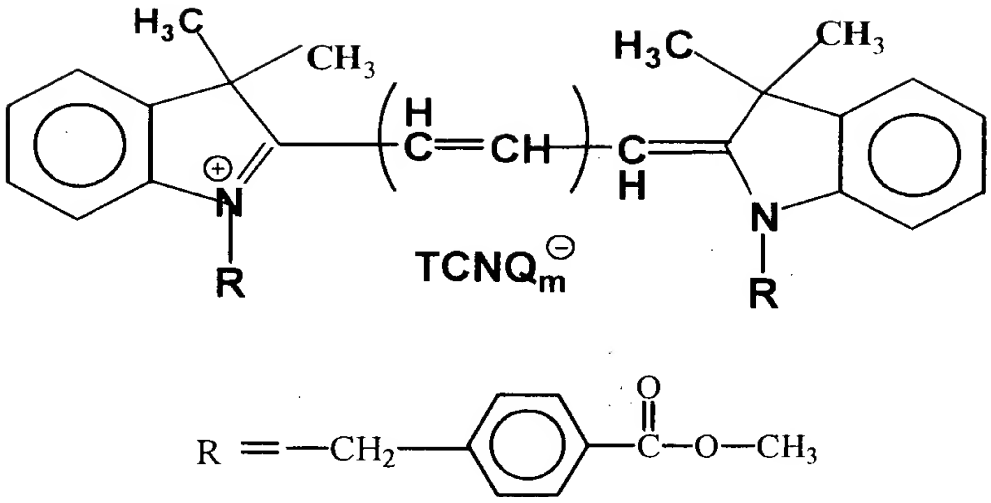

H3C
CH3
H3C
CH3
H
C=CH
C
H
N
R
TCNQm⊖
N
R
R =—CH2—
O
C—O—CH3

Fig.10

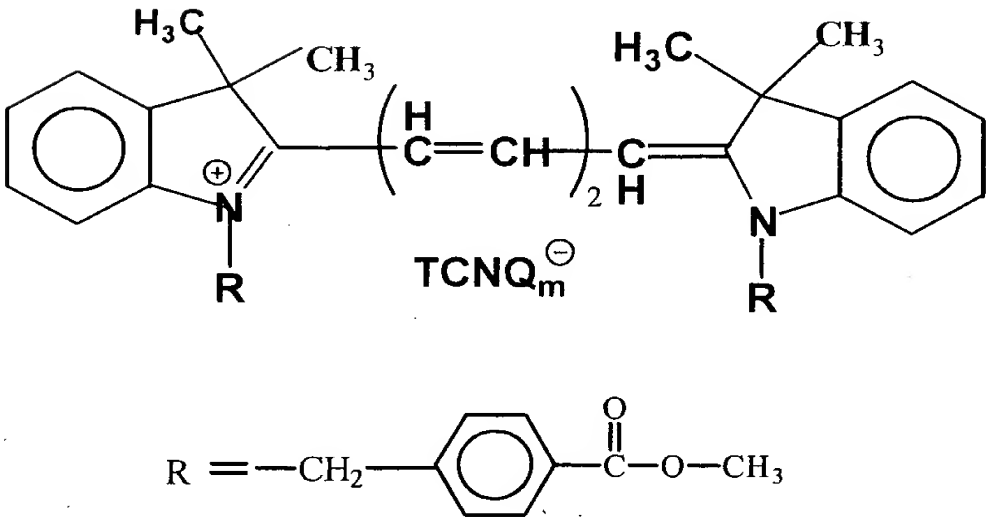

H3C
CH3
H3C
CH3
H
C=CH
2
C
H
N
R
TCNQm⊖
N
R
R =—CH2—
O
C—O—CH3

Fig.14

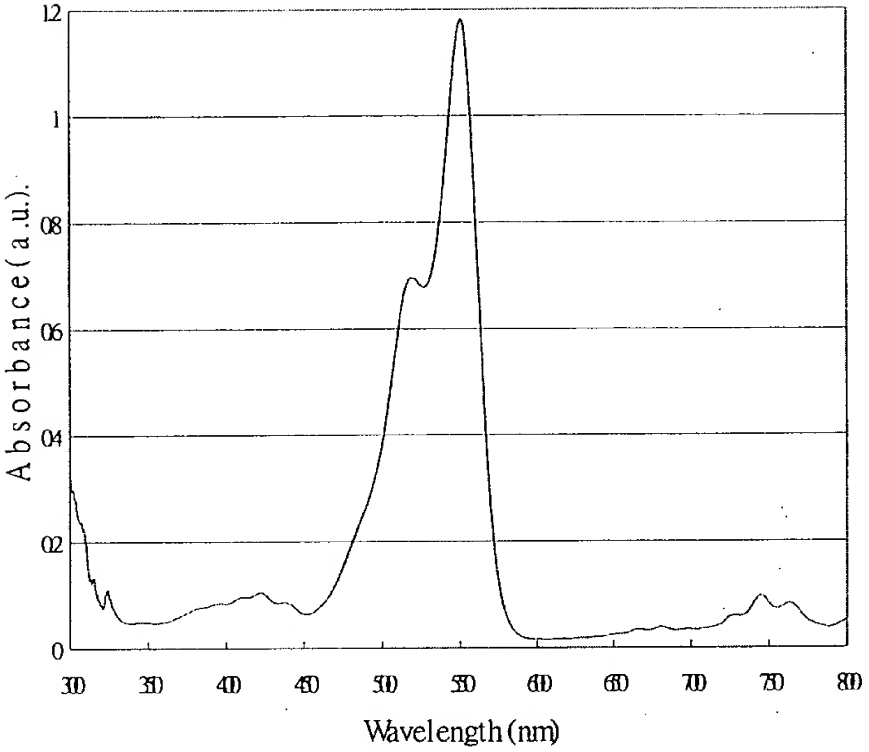

12
1
08
06
04
02
0
Absorbance(a.u.)
300
350
400
450
500
550
600
650
700
750
800
Wavelength(nm)

Fig.11

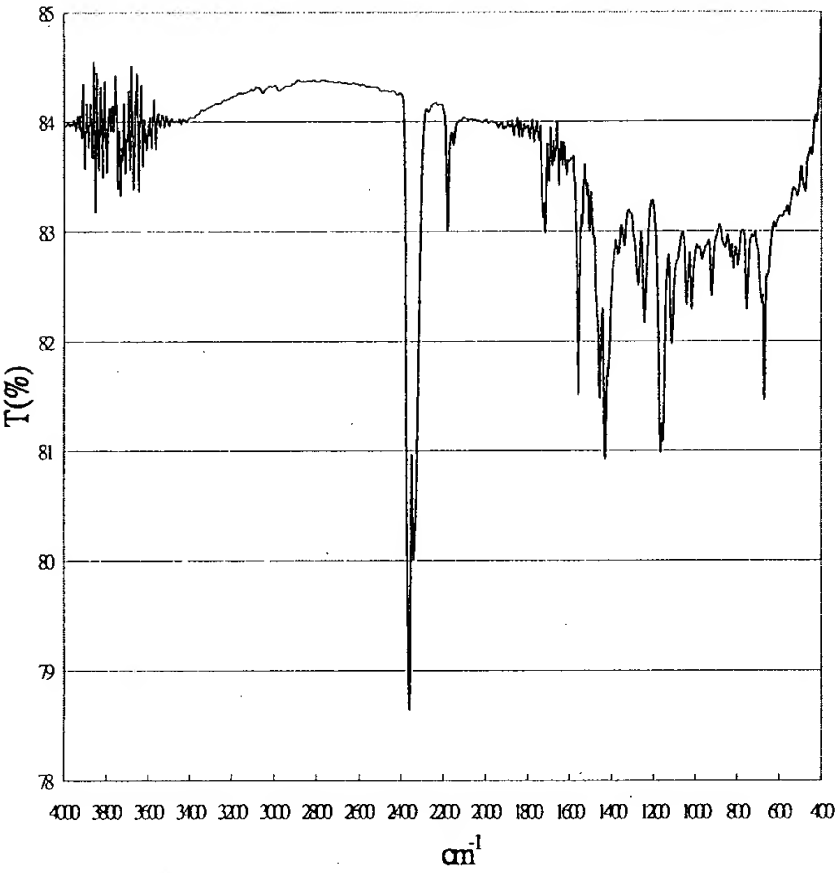

85
84
83
82
81
80
79
78
T(%)
4000 3800 3600 3400 3200 3000 2800 2600 2400 2200 2000 1800 1600 1400 1200 1000 800 600 400
cm-1

Fig.12

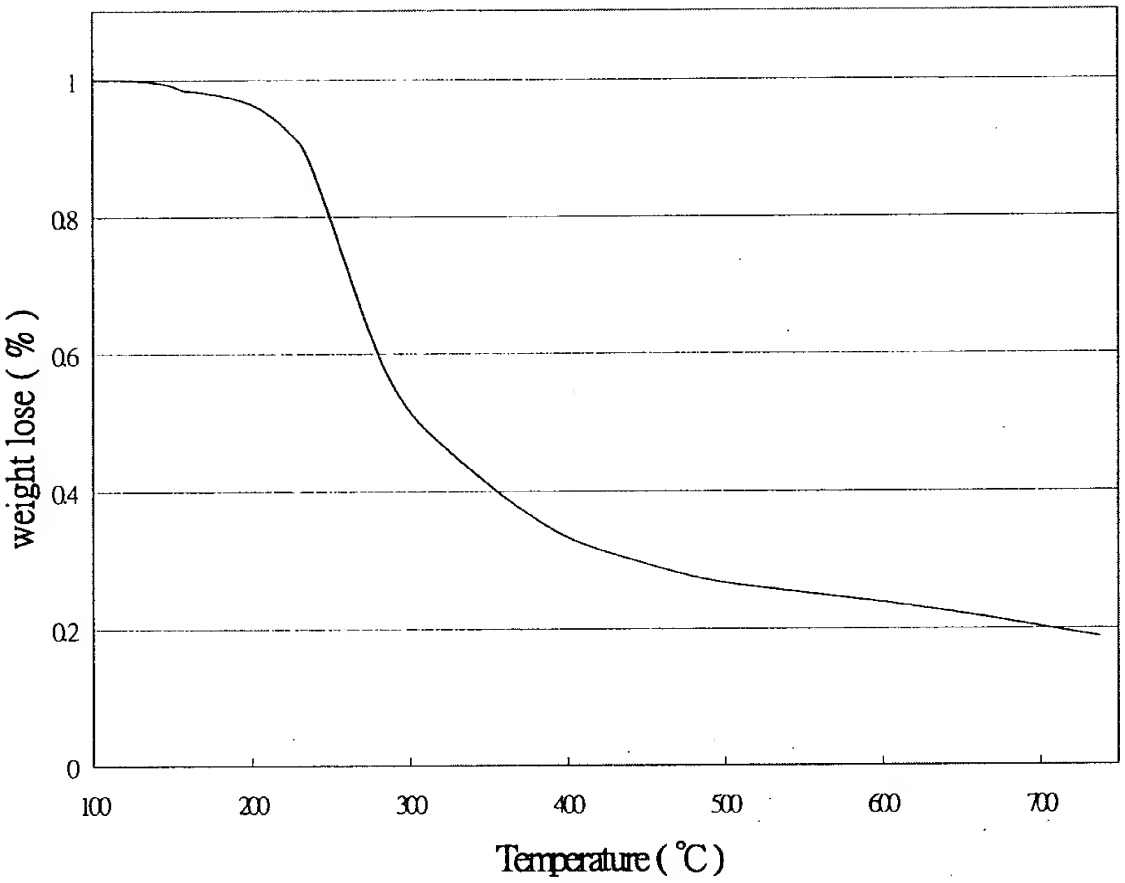

1
0.8
0.6
0.4
0.2
0
weight lose (%)
100
200
300
400
500
600
700
Temperature (℃)

Fig.13

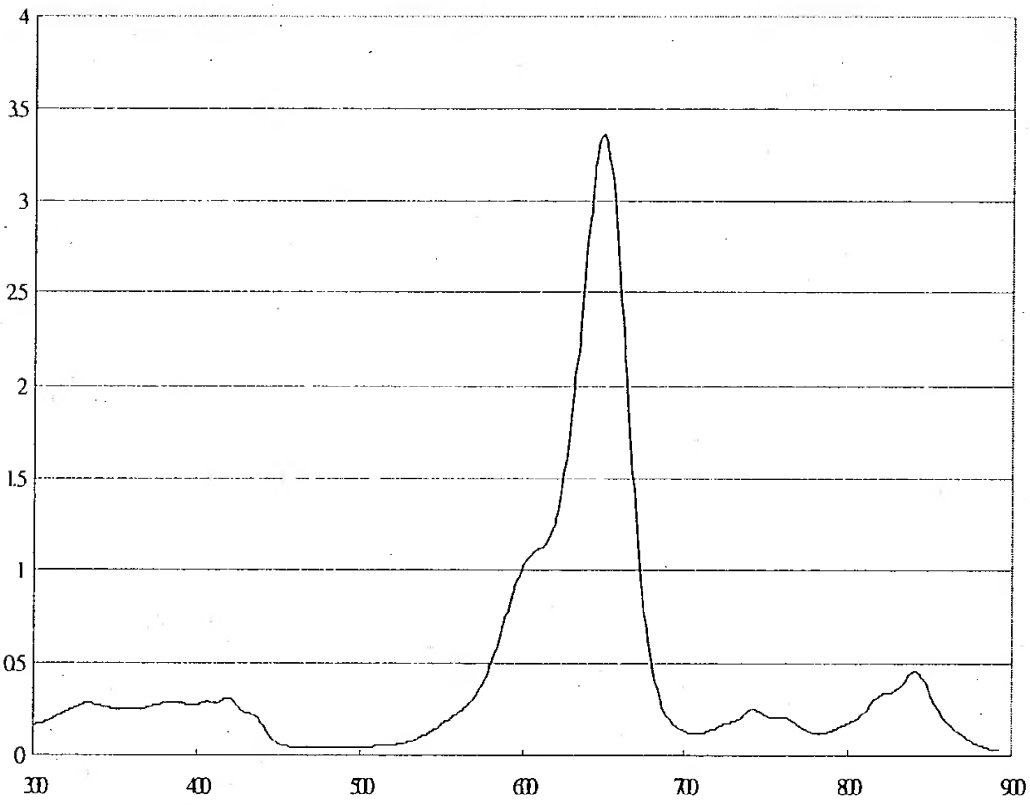


Fig.15

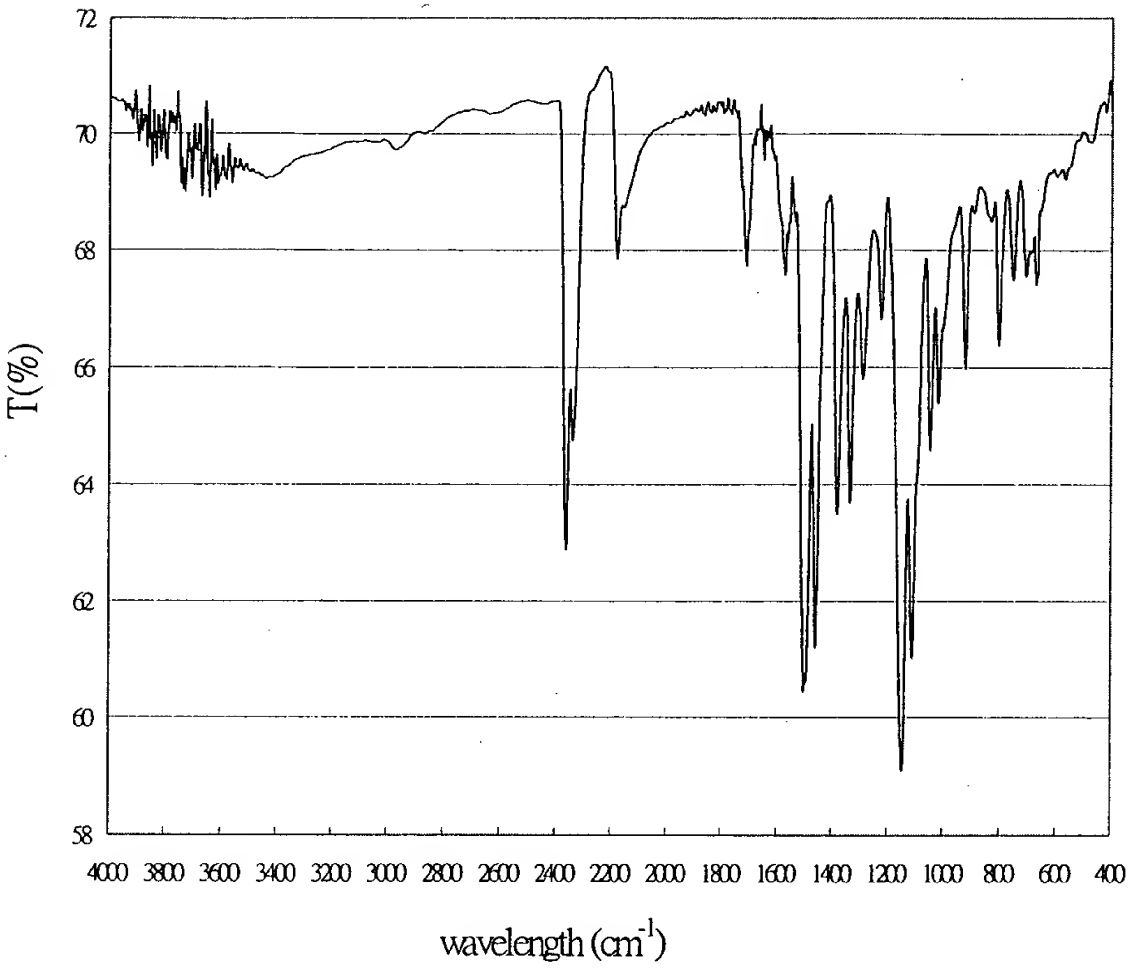

72
70
68
66
64
62
60
58
T(%)
4000 3800 3600 3400 3200 3000 2800 2600 2400 2200 2000 1800 1600 1400 1200 1000 800 600 400
wavelength (cm-1)

Fig.16

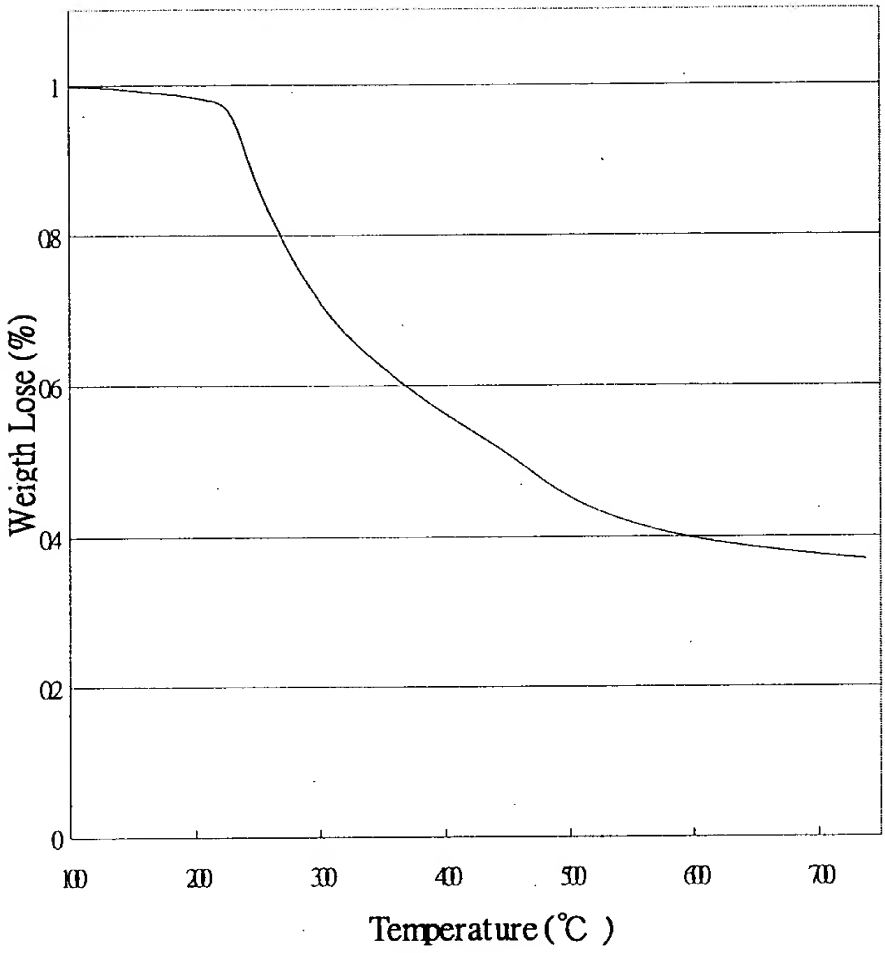

1
08
06
04
02
0
Weigth Lose (%)
100
200
300
400
500
600
700
Temperature (℃)

Fig.17

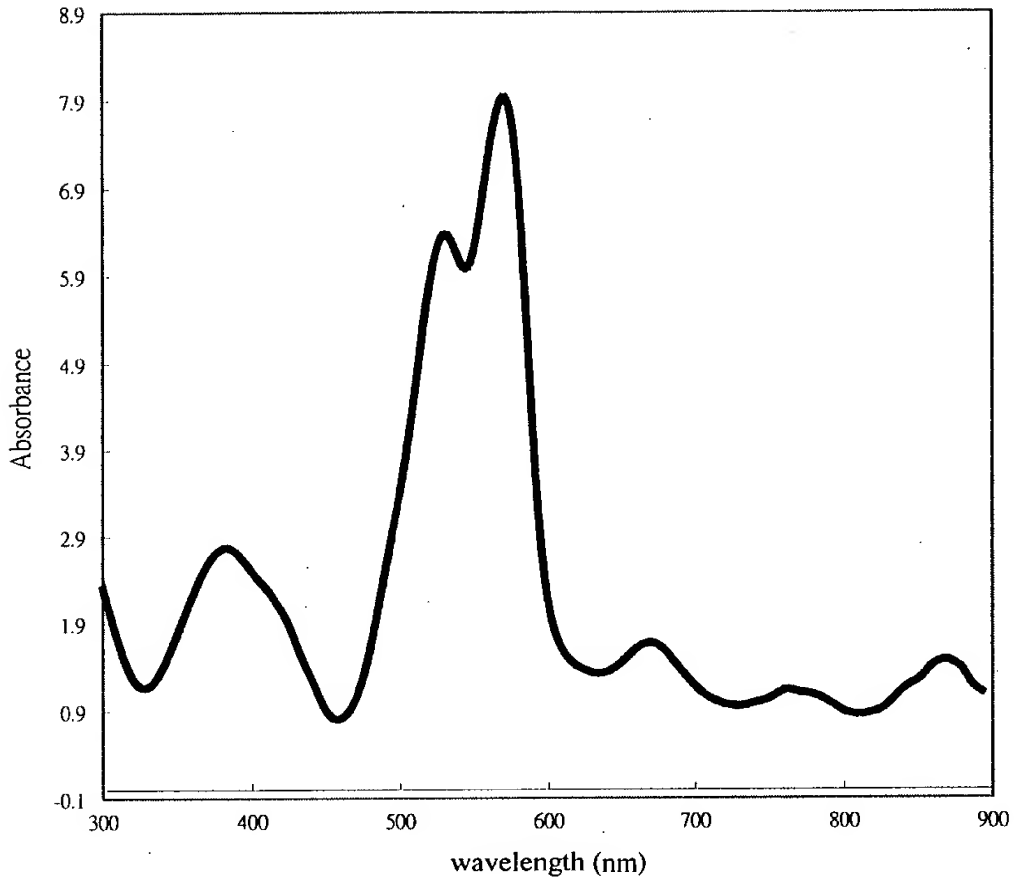

8.9
7.9
6.9
5.9
4.9
3.9
2.9
1.9
0.9
-0.1
Absorbance
300
400
500
600
700
800
900
wavelength (nm)

Fig.18

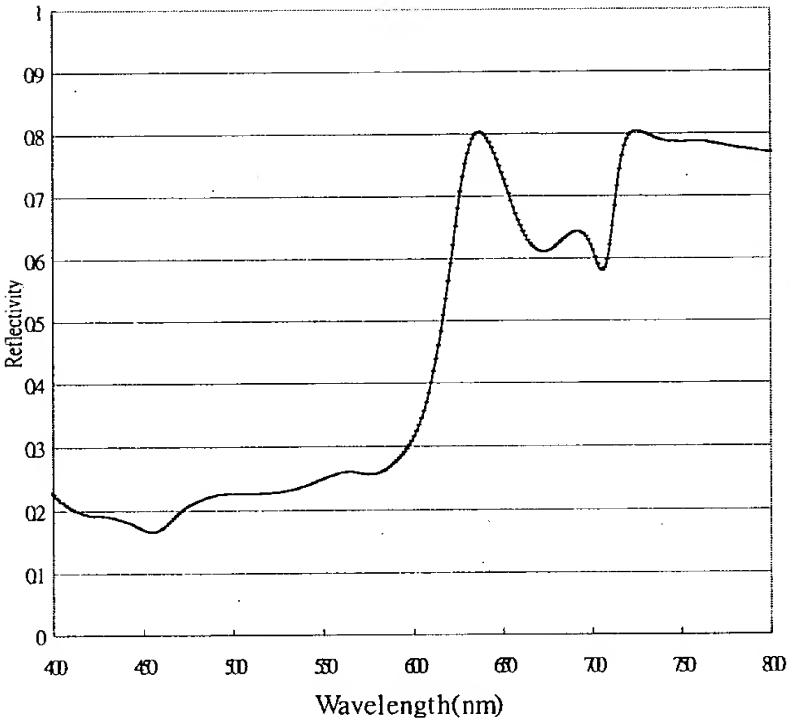

1
09
08
07
06
05
04
03
02
01
0
Reflectivity
400
450
500
550
600
650
700
750
800
Wavelength(nm)

Fig.19

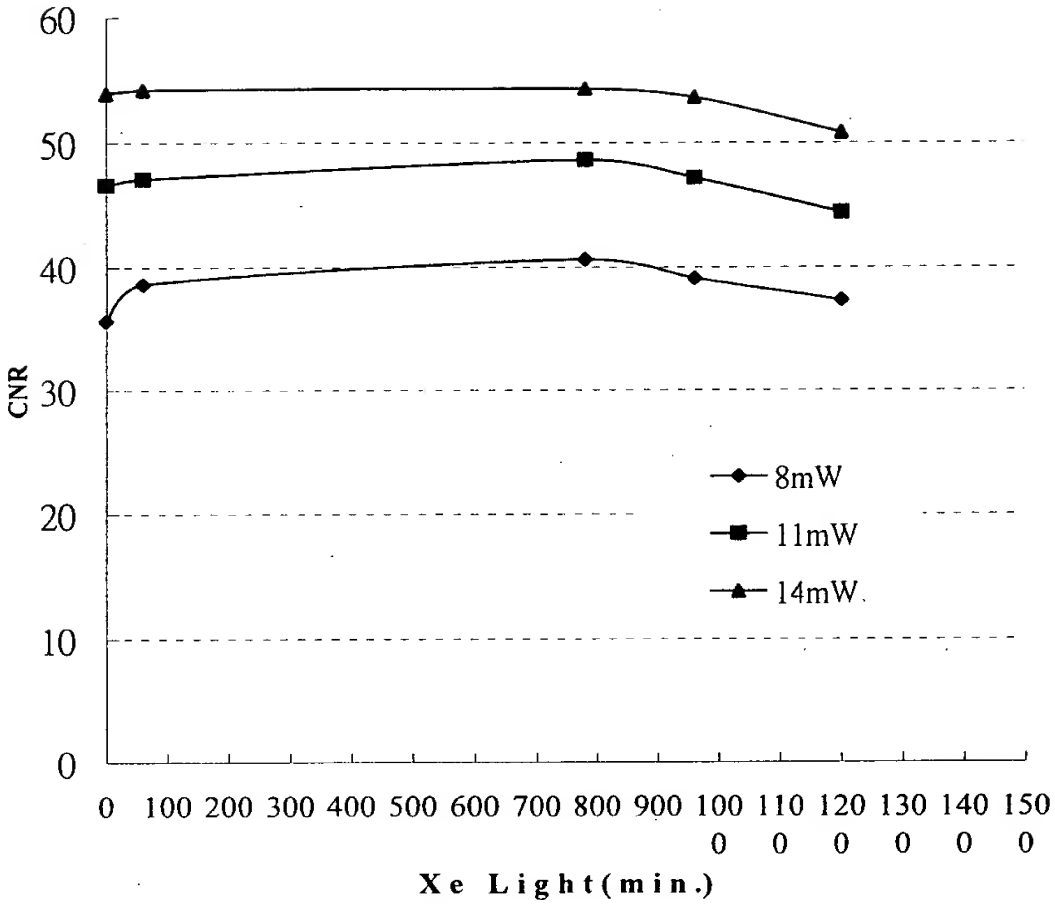

60
50
40
30
20
10
0
CNR
8mW
11mW
14mW
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500
Xe Light(min.)

Fig.20

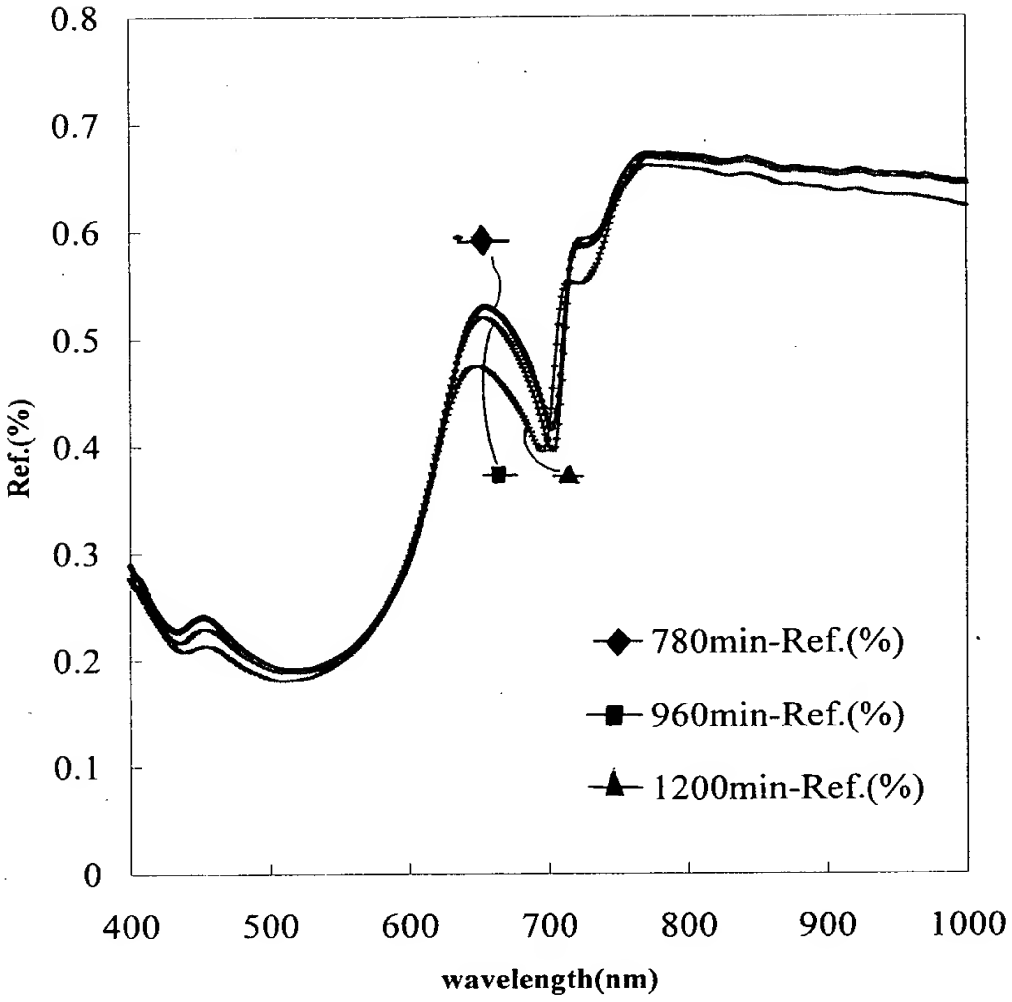

0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Ref.(%)
400
500
600
700
800
900
1000
wavelength(nm)
780min-Ref.(%)
960min-Ref.(%)
1200min-Ref.(%)

Fig.21

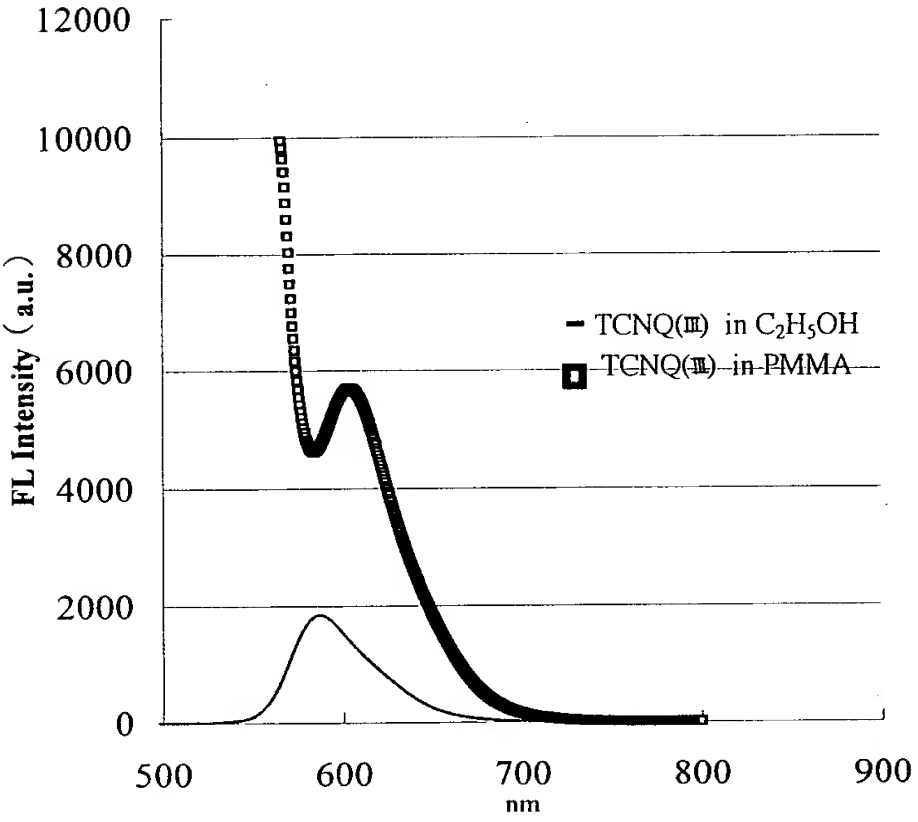

12000
10000
8000
6000
4000
2000
0
FL Intensity (a.u.)
500
600
700
800
900
nm
TCNQ(Ⅲ) in C_2H_5OH
TCNQ(Ⅲ) in PMMA

Fig.22